## AMBIO INDEX VOLUME XX 1991

SSUE NO. 1 TRACE METALS		NITROGEN REDUCTION— SWEDEN Can We Implement a Cost Efficient Nitrogen		BOOK REVIEW The Peruvian Anchoveta and its Upwelling Ecosystem: Three Decades of Change B. Ganning	164
Reassessment of the River Input of Trace Metals into the Mediterranean Sea W. S. Dorten, F. Elbaz-Poulichet, L. R. Mart		Reduction to the Laholm Bay?  IM. Andréasson-Gren, S. Fleischer and L. Stibe	94	GLOBAL CHANGE NEWS	165
and JM. Martin  ALPINE LAKE CHEMISTRY	2-6	NATURAL DEBT INDEX Allocating Responsibility for Global Warming: The Natural Debt Index		Issue No. 5	
Chemistry of Alpine Lakes in Aosta Valley (N. Italy) in Relation to Watershed Characteristics and Acid Deposition R. Mosello, A. Marchetto, G. A. Tartari,	7.40	K. R. Smith  WHALE SANCTUARY  Ecuadorian Whale Sanctuary is Created  Providing Protection for the Galapagos	95–96	Environmental Security and its Relation to Ethiopia and Sudan A. Westing DROUGHT	168–171
M. Bovio and P. Castello  FOREST DECLINE	7–12	Islands D. Evans	97	The Recent Droughts in Western Ethiopia and Sudan in a Climatic Context J. O. Mattson and A. Rapp	172–175
Airborne Chlorocarbons, Photooxidants, and Forest Decline H. Frank	13–18	BOOK REVIEW  No Timber Without Trees—Sustainability in the Tropical Forest	07.00	POLITICAL ECONOMY OF FAMINE	172-175
BIOMASS BURNING Amazonia Biomass Burnings in 1987 and an Estimate of Their Tropospheric Emissions	10.22	R. Persson  GLOBAL CHANGE NEWS	97–98	The Political Economy of Famine in Ethiopia and Sudan P. Cutler	176–178
A. W. Setzer and M. C. Pereira  LAKE ACIDIFICATION  Finnish Lake Survey: Present Status of	19–22	Issue No. 3–4 ATMOSPHERIC		ENVIRONMENTAL STRESS AND CONFLICT Environmental Stress and Conflict in Ethiopian History: Looking for Correlations	
Acidification J. Kämäri, M. Forsius, P. Kortelainen, J. Mannio and M. Verta	23–27	NITRATE, CHESAPEAKE BAY Atmospheric Nitrogen Deposition and the		S. Rubenson  ECONOMIC CONSEQUENCES	179–182
PRAWN FARMING Intensive Prawn Farming in the		Chesapeake Bay Estuary D. C. Fisher and M. Oppenheimer  ARAL SEA	102–108	OF DROUGHT  Economic Consequences of Drought, Crop Failure and Famine in Ethiopia, 1973–1986	
Philippines—Ecological, Social, and Economic Implications (1) J. H. Primavera	28-33	Requiem for the Aral Sea  N. Precoda	109-114	F. G. Kiros  PEASANT RESPONSE	183–185
GROUNDWATER RESOURCES Excessive Use of Groundwater Resources in Saudi Arabia: Impacts and Policy Options		ACID RAIN, VENEZUELA HCHO and HCOOH in Tropical Rains E. Sanhueza, Z. Ferrer, J. Romero and M. Santana	115–118	TO FAMINE Peasant Response to Famine in Ethiopia, 1975–1985	
A. A. Al-Ibrahim  TRANSITION ELEMENTS, BAY	34–37	SOIL ACIDITY, N.W. WALES Increases in Soil Acidity in North-West Wales Between 1957 and 1990	118–119	Adhana Haile Adhana  THE BEJA OF SUDAN  The Beja of Sudan and the Famine of	186–188
OF BOTHNIA Interrelations between Plutonium and Some Transition Elements in Gulf of Bothnian		J. C. I. Kuylenstierna and M. J. Chadwick  ENERGY AND ENVIRONMENT,  NEPAL	110-113	<b>1984–1986</b> G. Dahl	189–191
Sediments P. Östlund ONCHOCERCIASIS CONTROL	38-42	Energy and Environment in Nepal C. K. Sharma	120-123	DRYLAND DEGRADATION AND CONSERVATION FOR SURVIVAL	
Human Ecology and Behavior in Onchocerciasis Control in Isolated Villages of Kwara State, Nigeria		VALLEY OF BUTTERFLIES, RHODES Panaxia quadripunctaria in the Highly Touristic Valley of butterflies (Rhodes,		Dryland Degradation in Central Sudan and Conservation for Survival K. Olsson and A. Rapp	192–19
E. W. Ebomoyi and M. K. Omonisi  GLOBAL CHANGE NEWS	43–47 49	Greece): Conservation Problems and Remedies T. Petanidou, D. Vokou and N. S. Margaris	124–128	REFUGEE FLOWS AND POLITICAL STABILITY Implications of Refugee Flows on Political	
Issue No. 2		LAKE DEACIDIFICATION, ONTARIO The Role of Lake Deacidifications as Inferred		Stability in the Sudan R. Ek and A. Karadawi UMM RUWABA DISTRICT,	196–203
Environmental Economics and the Developing World D. Pearce and KG. Mäler	52–54	from Sediment Core Diatom Stratigraphies M. Dickman and J. Fortescue  TERMITES, ETHIOPIA	129-135	SUDAN Famine, Desertification and Vulnerable Populations: the Case of Umm Ruwaba	
TROPICAL DEFORESTATION The Economics of Tropical Deforestation	52 5.	Termites in Ethiopia: The Environmental Impact of their Damage and Resultant Control Measures		District, Kordofan Region, Sudan M. M. Khogali	204-206
E. B. Barbier, J. C. Burgess and A. Markandya  WETLAND MANAGEMENT	55-58	T. G. Wood  BURROWING MAYFLIES,	136–138	Issue No. 6 MUDFLOWS	
Economics and Wetland Management K. Turner	59-63	MANITOBA Changes in Abundance of Burrowing		Mudflow Disasters in Mountainous Areas A. Rapp, J. Li and R. Nyberg	210-21
BIODIVERSITY The Value of Biodiversity A. Randall	64-68	Mayfiles in Southern Indian Lake: Lessons for Environmental Monitoring D. J. Giberson, D. M. Rosenberg and A. P. Wiens	139–142	AGRICULTURAL PESTICIDES, DEVELOPING COUNTRIES Minimizing Environmental and Health Effects	
PROTECTED AREAS Economics of Protected Areas J. A. Dixon and P. B. Sherman	68-74	GREENHOUSE GASES, SWEDEN Sources and Sinks of Greenhouse Gases in Sweden: A Case Study		of Agricultural Pesticides in Developing Countries S. O. Igbedioh	219–22
LAND DEGRADATION Economics and Land Degradation		H. Rodhe, H. Eriksson, K. Robertson and B. H. Svensson Sources and Sinks of Carbon Dioxide in	143–145	LAKE ACIDIFICATION, NORWAY  A Regional Model of Lake Acidification in  Southernmost Norway  R. F. Wright, B. J. Cosby and G. M. Hornberger	222–22
J. P. Bojö  LIVESTOCK MANAGEMENT	75–79	H. Eriksson	146-150	FISHERIES, LAKE CONSTANCE, GERMANY	
Livestock Management and "Overgrazing"  Among Pastoralists  I. Livingstone	80-85	Emissions of N₂O in Sweden—Natural and Anthropogenic Sources K. Robertson	151–155	Potential Effects of Global Warming on	226–23
BIOLOGICAL DIVERSITY—THAILAND		Sources and Sinks of Methane in Sweden B. H. Svensson, J. C. Lantsheer and H. Rodhe ENVIRONMENTAL IMPACT	155-160		
Economic Incentives for Conserving Biological Diversity in Thailand J. A. McNeely and R. J. Dobias	86-90	PREDICTIONS  How Accurate Are Environmental Impact		Perspectives from Britain R. Fuller, D. Hill and G. Tucker	232–23
RAIN FOREST RESERVE—COSTA RICA	55 56	Predictions? R. Buckley OECD REPORT CARD	161–162	CONIFEROUS FORESTS, NORWAY Conserving Coniferous Forest in Norway—A	
Valuing Ecotourism in a Tropical Rain Forest Reserve D. Tobias and R. Mendelsohn	91–93	The State of the Environment: A Report Card for OECD Countries	163-164	Critical Time for International Environmental Obligations	238-2

MULTIPURPOSE		ATMOSPHERIC		Issue No. 8	
TREE, ETHIOPIA The Traditional Domestication of a Multipurpose Tree Moringa stenopetala		DEPOSITION, SWEDEN  Recent Atmospheric Deposition in Sweden of Carbonaceous Particles from Fossil-fuel Combustion Supremed Using Lake Sediments		Supporting Research on Environment and Development JO. Lundberg	350
(Bak.f.) Čuf. in the Ethiopian Rift Valley S. Al Azharia Jahn	244-247	Combustion Surveyed Using Lake Sediments M. Wik and I. Renberg	289-292	IMPACT OF GRAZING,	
LANDSCAPE RECUPERATION, AMAZONAS Recuperation of a Degraded Amazonian		LONG-RANGE TRANSPORT, POLYCHLORINATED AROMATES AND PESTICIDES		SAVANNA Impact of Grazing in Savanna Ecosystems C. Skarpe	351–356
Landscape: Forest Recovery and Agricultural Restoration D. C. Nepstad, C. Uhl and E. A. S. Serrão	248-255	Further Evidence for Long-Range Air Transport of Polychlorinated Aromates and Pesticides: North America and Eurasia to the Arctic		MULTIDISCIPLINARY RESEARCH, SEMIARID TANZANIA	
NITROGEN DEPOSITION,		M. Oehme	293-297	Man-Land Interrelations in Semiarid	
CHESAPEAKE BAY Atmospheric Deposition and Nitrogen Inputs		CHITTAURGARH IRRIGATION PROJECT HIMALAYAS		Tanzania: A Multidisciplinary Research Program C. Christiansson, I. Kikula and W. Östberg	357–361
to Coastal Waters K. R. Hinga, A. A. Keller and C. A. Oviatt	256-260	Environmental Impact Assessment for Sustainable Development: Chittaurgarh		KONDOA IRANGI HILLS,	007 007
NITROGEN IN BEECH		Irrigation Project in Outer Himalayas  A. Ahmad and P. P. Singh	298–302	TANZANIA	
FOREST, SWEDEN Effects of Simulated Nitrogen Deposition to the Forest Floor on the Macrofungal Flora of		FOG WATER, ARID COASTS Fog-water Collection in Arid Coastal	200 002	Socioecological Processes and the Land Question in the Kondoa Irangi Hills, Tanzania C. Mung'ong'o	362–365
a Beech Forest Å. Rühling and G. Tyler	261-263	Locations R. Schemenauer and P. Cereceda	303-308	WETLANDS IN DRYLANDS,	
HEAVY METALS, RIVER DANUBE, HUNGARY		METAL DISTRIBUTION, BALTIC SEA SEDIMENT		AFRICA Wetlands in Drylands: Key Resources for Agricultural and Pastoral Production in	
Heavy-metal Accumulation in Cladophora glomerata (L.) Kütz in the River Danube N. Oertel	264-268	Environmental Implications of Metal Distribution in Baltic Sea Sediments R. O. Hallberg	309–316	Africa 1. Scoones ASSESSING DESERTIFICATION	366–371
BIODIVERSITY CONSERVATION SYNOPSIS		RAIN-FOREST RESERVES, ALTERNATIVE CONSERVATION		Desertification—Time for An Assessment? U. Helldén	372–383
A Strategy for the Conservation of Biodiversity G. Almered-Olsson, L. E. Liljelund and L. Hedlund	269–270	STRATEGY Indigenous Control of Tropical Rain-forest Reserves: An Alternative Strategy for		WATER RECYCLING, AMAZON BASIN	
BOOK REVIEW Envisioning a Sustainable Society. Learning Our Way Out		Conservation P. A. Cox and T. Elmqvist	317–321	Mechanisms of Water Recycling in the Amazon Basin: Isotopic Insights R. L. Victoria, L. A. Martinelli, J. Mortatti	204 207
B. Hubendick  WETLAND RESTORATION,	270	CLIMATE PROTECTION POLICY Toward Climate Conventions Scenario Analysis for a Climatic Protection Policy		and J. Richey  AFRICAN DRYLANDS	384–387
SWEDEN SYNOPSIS Restoration of Wetlands as a Means of		W. Bach and A. K. Jain  MULTIPLE-USE FORESTRY	322–329	Research and Development Issues for African Drylands  A. Hjort af Ornäs and M. Salih	388-394
Reducing Nitrogen Transport to Coastal Waters	071 070	Multiple-use Forestry for Social Values N. E. Koch and J. J. Kennedy	330-333	NATURAL FORESTS,	
S. Fleischer and L. Stibe  GLOBAL CHANGE NEWS	271–272 273	INFLUENCE FOREST		SEMIARID AFRICA Management of Natural Forests in the	
		DRAINAGE, USSR Influence of Forest Drainage on Runoff: Main Concepts and Examples from Central Part of		Semiarid Areas of Africa J. Fries	395-400
Issue No. 7		the USSR European Territory A. Sirin, S. Vompersky and N. Nazarov	334-339	GLOBAL CHANGE NEWS	40
WETLANDS, JAMAICA Development and Degradation, Redevelopment and Preservation of		CLIMATE CHANGE NEGOTIATIONS Climate Change Negotiations Polarize			
<b>Jamaican Wetlands</b> S. Björk and G. Digerfeldt	276-284	C. P. Collins  BOOK REVIEW	340–344		
RED PANDAS, NEPAL Geographic Information Systems for Assessing Habitat and Estimating Population		Development Policy and Land Degradation in the Sahel—A Reassessment P. Eklund	344-346		
- County i united and Louisiating i opulation					

GLOBAL CHANGE NEWS

285-288

347

RED PANDAS, NEPAL
Geographic Information Systems for
Assessing Habitat and Estimating Population
of Red Pandas in Langtang National Park,
Nepal
P. Yonzon, R. Jones and J. Fox

